



## NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H090366

**Mode:** Highway

**Status:** Submitted

### US-15, US-501

**From/Cross Street:** I-40

**Specific Improvement Type:** 2 - Upgrade Arterial to Freeway/Expressway

**To:** US 15/501

**Project Category:** Statewide Mobility

**Length:** 1.95

**TIP#:** U-2807

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$130,644,000

#### Description:

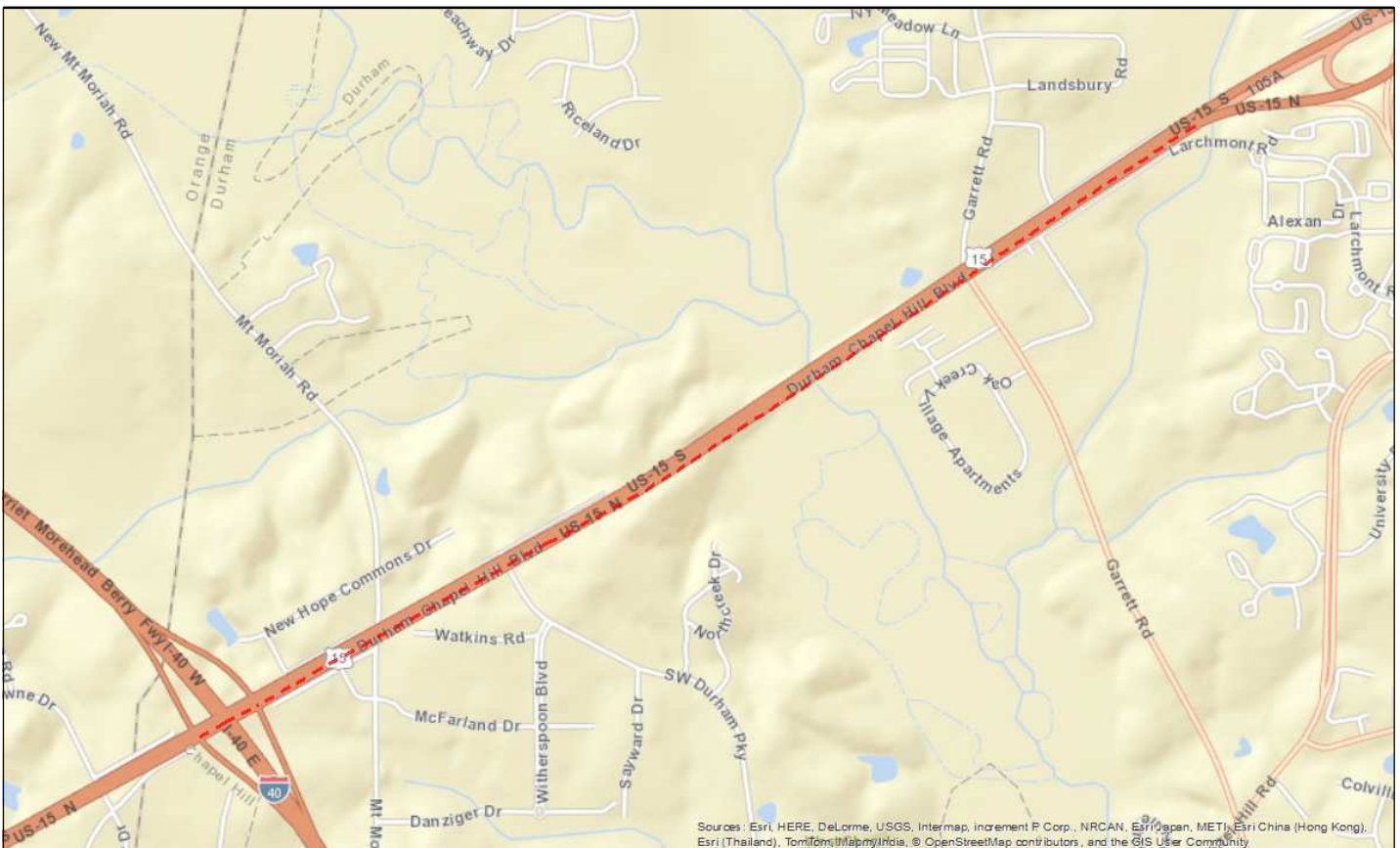
I-40 to US 15/501 Bypass in Durham. Major Corridor Upgrade

**Division(s):** Division 5

**County(s):** DURHAM

**MPOS(s)/RPO(s):** Durham Chapel Hill Carrboro MPO

#### Project Location



**Statewide Mobility Total Score: 34.75**

<b>Quantitative Score</b>		<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (30%)	73.00	N/A	N/A
Safety (10%)	76.99		
Economic Competitiveness (10%)	25.45		
Multimodal + [Freight & Military] (20%)	7.67		
[Travel Time] Benefit/Cost (30%)	3.57		
<b>Totals: Weight: 100% Weighted Score: 34.75</b>			

**Regional Impact Total Score: 51.84**

<b>Quantitative Score</b>		<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (25%)	73.00	Percent: 15% Points: 0	Percent: 15% Points: 100
Safety (10%)	76.99		
[Travel Time] Benefit/Cost (25%)	3.57		
Accessibility / Connectivity (10%)	100.00		
<b>Totals: Weight: 70% Weighted Score: 36.84</b>			

**Division Needs Total Score: 23.01**

<b>Quantitative Score</b>		<b>Division Engineer Local Input Points</b>	<b>MPO/RPO Local Input Points</b>
Congestion (V/C) (20%)	73.00	Percent: 25% Points: 0	Percent: 25% Points: 0
Safety (10%)	76.99		
[Travel Time] Benefit/Cost (20%)	3.57		
<b>Totals: Weight: 50% Weighted Score: 23.01</b>			

**Project Data \*****Existing Conditions**

Existing Cross-Section:	
Speed Limit:	52
Length (miles):	1.95
Facility Type:	Arterial
Access Control:	Limited
Functional Classification:	Other Principal Arterial- Other Freeway
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	3
Roadway has Curb & Gutter?	No
Volume (AADT):	45742.25
Capacity:	50170.73
Volume/Capacity Ratio:	0.91
% Autos:	97%
% Trucks:	3%
Truck Volume:	1533.1
Crash Density:	90.36
Crash Severity:	51.22
Critical Crash Rate:	89.41
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	20
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	97
Actual Congested Speed:	31.32
Travel Time Index:	1.67

**Project Benefits**

Project Cross-Section:	6B - 6 Lane Divided (27' Median with Jersey Barrier with Paved Shoulders)
Speed Limit:	60
Length (miles):	1.95
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial- Other Freeway
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	10
Travel Time Savings for 30 Years (Total):	20884300.79
Travel Time Savings for 30 Years (Autos):	20184340.32
Travel Time Savings for 30 Years (Trucks):	699960.47
Long-Term Employment:	297
% Change in Economy:	0.00021197
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 5

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

**Project Ownership****Division**

<b>Division</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Division 5	100%	0	0
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>0</b>	<b>0</b>

**MPO/RPO**

<b>MPO/RPO</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Durham Chapel Hill Carrboro MPO	100%	100	0
	0%	0	0
	0%	0	0
<b>TOTAL MPO/RPO Points</b>		<b>100</b>	<b>0</b>

**Project Cost and Source**

Construction Cost:	\$130,644,000	TIP Unit
Right-of-Way Cost:	\$0	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$130,644,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$130,644,000</b>	